



JIB-1571 Seq Listing 2.ST25
SEQUENCE LISTING

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Huber, Steven C
Larabell, Carolyn A

<120> SYNTHETIC PEPTIDES THAT CAUSE F-ACTIN BUNDLING AND BLOCK ACTIN
DEPOLYMERIZATION

<130> JIB-1571PCT

<140> Not yet assigned

<141> 2004-10-20

<150> US 60/513,275

<151> 2003-10-20

<160> 24

<170> PatentIn version 3.2

<210> 1

<211> 15

<212> PRT

<213> Zea mays

<220>

<221> peptide

<222> (1)..(15)

<400> 1

Glu Asn Gly Ile Val Arg Lys Trp Ile Ser Arg Phe Glu Val Trp
1 5 10 15

<210> 2

<211> 15

<212> PRT

<213> Zea mays

<220>

<221> peptide

<222> (1)..(15)

<400> 2

Glu Asn Gly Ile Leu Arg Lys Trp Ile Ser Arg Phe Asp Val Trp
1 5 10 15

<210> 3

<211> 15

<212> PRT

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<222> (1)..(15)

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<400> 3

Glu Asn Gly Ile Val Arg Lys Trp Ile Ser Arg Phe Glu Val Trp
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<210> 4

<211> 15

<212> PRT

<213> Zea mays

<220>

<221> peptide

<222> (1)..(15)

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Glu Asn Gly Ile Leu Lys Lys Trp Ile Ser Arg Phe Asp Val Trp
1 5 10 15

<210> 5

<211> 15

<212> PRT

<213> Drosophila melanogaster, Homo sapiens

<220>

<221> peptide

<222> (1)..(15)

<400> 5

Glu His Gly Ile Val Thr Asn Trp Asp Asp Met Glu Lys Ile Trp
1 5 10 15

<210> 6

<211> 15

<212> PRT

<213> Drosophila melanogaster, Homo sapiens

<220>

<221> peptide

<222> (1)..(15)

<400> 6

Glu His Gly Ile Ile Thr Asn Trp Asp Asp Met Glu Lys Ile Trp
1 5 10 15

<210> 7

<211> 15

<212> PRT

<213> Drosophila melanogaster

<220>

<221> peptide

<222> (1)..(15)

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<400> 7

Glu His Gly Ile Val Lys Asp Trp Asn Asp Met Glu Arg Ile Trp
1 5 10 15

<210> 8

<211> 15

<212> PRT

<213> Drosophila melanogaster

<220>

<221> peptide

<222> (1)..(15)

<400> 8

Glu Asn Gly Val Val Arg Asn Trp Asp Asp Met Cys His Val Trp
1 5 10 15

<210> 9

<211> 17

<212> PRT

<213> Artificial sequence

<220>

<223> SS1 inactive control peptide

<220>

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<222> (1)..(17)

<400> 9

Gly Asp Arg Val Leu Ser Arg Leu His Ser Val Arg Glu Arg Ile Gly
1 5 10 15

Lys

<210> 10

<211> 18

<212> PRT

<213> Artificial sequence

<220>

<223> SS2 active peptide based on SuSy 377-392

<220>

<221> peptide

<222> (1)..(18)

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Gly Ile Val Arg Lys Trp Ile Ser Arg Phe Glu Val Trp Pro Tyr Leu
1 5 10 15

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Lys Lys

<210> 11
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 <223> SS11 inactive synthetic peptide

<220>
 <221> peptide
 <222> (1)..(15)

<400> 11

Ile Leu Arg Val Pro Phe Arg Thr Glu Asn Gly Ile Val Arg Lys
 1 5 10 15

<210> 12
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 <223> SS12 active synthetic peptide

<220>
 <221> peptide
 <222> (1)..(16)

<400> 12

Gly Ile Val Arg Lys Trp Ile Ser Arg Phe Glu Val Trp Pro Tyr Leu
 1 5 10 15

<210> 13
 <211> 16
 <212> PRT
 <213> Artificial sequence

<220>
 <223> SS15 less active synthetic peptide

<220>
 <221> peptide
 <222> (1)..(16)

<220>
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 <222> (6)..(6)
 <223> replaced Tryptophan residue with Alanines

<220>

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<221> SITE
 <222> (13)..(13)
 <223> replaced Tryptophan residue with Alanine

<400> 13

Gly Ile Val Arg Lys Ala Ile Ser Arg Phe Glu Val Ala Pro Tyr Leu
 1 5 10 15

<210> 14
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 <212> PRT
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 <223> SS16 less active synthetic peptide corresponding to short middle portion of SS12

<220>
 <221> peptide
 <222> (1)..(9)

<400> 14

Ser Arg Phe Glu Val Trp Pro Tyr Leu
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<210> 15
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 <212> PRT
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 <223> NR11 inactive synthetic peptide

<220>
 <221> peptide
 <222> (1)..(19)

<400> 15

Gly Pro Thr Leu Lys Arg Thr Ala Ser Thr Ala Phe Met Asn Thr Thr
 1 5 10 15

Ser Lys Lys

<210> 16
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 <223> SP26 inactive synthetic peptide

<220>

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<221> peptide
<222> (1)..(14)

<400> 16

Gly Arg Met Arg Arg Ile Ala Thr Val Glu Met Met Lys Lys
1 5 10

<210> 17
<211> 8
<212> PRT
<213> Artificial sequence

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<223> small block of SS12 sequence required for less active
synthetic peptide

<220>
<221> PEPTIDE
<222> (1)..(8)

<400> 17

Trp Ile Ser Arg Phe Glu Val Trp
1 5

<210> 18
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<213> Artificial sequence

<220>
<223> SP3 inactive synthetic peptide

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<221> PEPTIDE
<222> (1)..(10)

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Arg Arg Ile Ser Ser Val Glu Asp Lys Lys
1 5 10

<210> 19
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<212> PRT
<213> Drosophila melanogaster

<220>
<221> PEPTIDE
<222> (1)..(20)

<400> 19

Glu His Gly Ile Val Thr Asn Trp Asp Asp Met Glu Lys Ile Trp His
1 5 10 15

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His Thr Phe Tyr
20

<210> 20
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<221> PEPTIDE
<222> (1)..(15)

<400> 20

Glu His Gly Val Val Arg Asp Trp Asn Asp Met Glu Arg Ile Trp
1 5 10 15

<210> 21
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<221> PEPTIDE
<222> (1)..(15)

<400> 21

Glu Asn Gly Ile Val Arg Asn Trp Asp Asp Met Lys His Leu Trp
1 5 10 15

<210> 22
<211> 6
<212> PRT
<213> Artificial sequence

<220>
<223> Core minimum block of SS12 sequence required for less active
synthetic peptide

<220>
<221> PEPTIDE
<222> (1)..(6)

<400> 22

Ser Arg Phe Glu Val Trp
1 5

<210> 23
<211> 13
<212> PRT
<213> Artificial sequence

<220>
<223> SS synthetic peptide B

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<220>
 <221> PEPTIDE
 <222> (1)..(13)

<400> 23

Trp Ile Ser Arg Phe Glu Val Trp Pro Tyr Leu Lys Lys
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<210> 24
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 <212> PRT
 <213> Artificial sequence

<220>
 <223> SS synthetic peptide C

<220>
 <221> PEPTIDE
 <222> (1)..(20)

<400> 24

Glu Asn Gly Ile Val Arg Lys Trp Ile Ser Arg Phe Glu Val Trp Pro
 1 5 10 15

Tyr Leu Lys Lys
 20